AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

1-38. (Canceled)

39.   (Previously presented) An apparatus comprising:

a light source configured to produce a coherent beam;

a beam splitter configured to split the coherent beam into

an object beam, and

a reference beam;

a material holder configured to hold a holographic recording material;

an object beam unit configured to

display a rendered image,

condition the object beam with the rendered image, and

cause the object beam to interfere with the reference beam at a location for an elemental hologram of a holographic stereogram on the holographic recording material;

a voxel-control lens located in a path of the object beam and positioned at a distance from the location for the elemental hologram, wherein the distance is based at least in part on

a focal length of the voxel-control lens, and

a size of the elemental hologram; and

a computer programmed to control a delivery of the rendered image to the object beam unit.

40.   (Previously presented) The apparatus of claim 39, wherein:

the object beam unit comprises a spatial light modulator (SLM) configured to display the
rendered image; and

the voxel-control lens has a focal length about equal to a distance between the voxel-
control lens and the SLM.

41.   (Previously presented) The apparatus of claim 39, wherein:

the object beam unit comprises a SLM configured to display the rendered image; and

the voxel-control lens has a focal length about equal to a distance between the voxel-
control lens and a projected image of the SLM.

42-56. (Canceled)

57.   (Previously presented) A method comprising:

selecting a location for an elemental hologram of a holographic stereogram in a
holographic recording medium;

generating a coherent light beam;

splitting the beam into

an object beam, and

a reference beam;

rendering an image;

conditioning the object beam with the rendered image, wherein the conditioning
comprises

positioning a voxel-control lens at a distance from the selected location for the
elemental hologram, wherein the positioning is based at least in part on

a focal length of the voxel-control lens, and

a size of the elemental hologram, and

passing the object beam through the voxel-control lens; and

interfering the conditioned object beam with the reference beam at the selected location for the elemental hologram.

58-64. (Canceled)

65.   (Previously presented) The method of claim 57, wherein the voxel-control lens is positioned at a location selected to:

change the size of at least one voxel of the holographic stereogram; and

make the rendered image, from a viewpoint of the selected location for the elemental hologram, appear at a greater apparent distance relative to the holographic recording material.

66.   (Previously presented) The method of claim 57, wherein:

the conditioning comprises displaying the rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and the SLM.

67.   (Previously presented) The method of claim 57, wherein:

the conditioning comprises displaying the rendered image on a spatial light modulator (SLM); and

the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and a projected image of the SLM.

68.   (**Currently amended**) A system comprising:

~~means for selecting a location for an elemental hologram of a holographic~~
~~stereogram in a holographic recording medium;~~

means for generating a coherent light beam;

means for splitting the beam into

an object beam, and

a reference beam;

means for rendering an image;

means for conditioning the object beam with the rendered image, comprising

an object beam unit, wherein

the object beam unit is configured to position ~~means for positioning~~ a

voxel-control lens at a distance from [[the]] **a** selected location for

[[the]] **an** elemental hologram **of a holographic stereogram**,

[[wherein]]

the elemental hologram is in a holographic recording medium,

the **distance** ~~positioning~~ is based at least in part on

a focal length of the voxel-control lens, and

a size of the elemental hologram, and

means for passing the object beam through the voxel-control lens; and

means for interfering the conditioned object beam with the reference beam at the selected
location for the elemental hologram.

69.   (**Currently amended**) The system of claim 68, wherein the **object beam unit** ~~means for positioning~~ is configured to position the voxel-control lens at a location selected to:

       change the size of at least one voxel of the holographic stereogram; and

       make the rendered image, from a viewpoint of the selected location for the elemental hologram, appear at a greater apparent distance relative to the holographic recording material.

70.   (Previously presented) The system of claim 68, wherein:

       the means for conditioning the object beam with the rendered image comprises

              means for displaying the rendered image on a spatial light modulator (SLM); and

       the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and the SLM.

71.   (Previously presented) The system of claim 68, wherein:

       the means for conditioning the object beam with the rendered image comprises

              means for displaying the rendered image on a spatial light modulator (SLM); and

       the focal length of the voxel-control lens is about equal to a distance between the voxel-control lens and a projected image of the SLM.